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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/637,698

08/15/2000

Ki Jun Kim

HI-006

1780

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7590

01/27/2005

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EXAMINER

DADA, BEEMNET W

ART UNIT

PAPER NUMBER

2135

DATE MAILED: 01/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/637,698	<b>Applicant(s)</b> KIM ET AL.	
	<b>Examiner</b> Beemnet W Dada	<b>Art Unit</b> 2135	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 11 August 2004.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. This office action is in reply to an amendment filed on August 11, 2004. Claims 3, 4, 9, 11, 14-16 have been amended and new claims 17-19 have been added. Claims 1-19 are pending.

### ***Response to Arguments***

2. The objection to claims 9 and 11 has been withdrawn in view of the amendment filed on August 11, 2004.

3. Applicant's arguments, pages 11-13, filed on August 11, 2004, with respect to the rejections of claims 1-16 have been fully considered, but they are not persuasive. Regarding claims 1-16, Applicant argues that Dahlman et al. does not disclose generating a secondary scrambling code by shifting an initial value of the primary scrambling codes and in Dahlman et al. the primary and secondary codes are determined independently of each other. Applicant further argues that TSG-RAN does not teach generating a secondary code by shifting a primary code as the present invention, and further Burns merely shows a masking circuit. Examiner respectfully disagrees. Upon further consideration, Examiner asserts that Dahlman et al. discloses modifying sequence of binary codes with shift registers to generate scrambling codes that meet the recitation and modifying the code with another code to generate a secondary code. [see for example column 4, line 57- column 5 line 26 and claims 1, and 6]. The process of masking function is disclosed by Burns [see for example, column 8, lines 29-44]. Furthermore, TSG-RAN is directed to multiple code generating apparatus, for generating primary and

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secondary codes, further using a masking function unit which meets the claimed limitations [see for example figures 1 and 5].

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-3, 14-16 and 19 are rejected under 35 U.S.C 103 (a) as being unpatentable over Dahlman et al. (hereinafter referred to as Dahlman) (U.S. Patent No. 6,339,646 B1).

6. As per claims 1, 14 and 19, Dahlman teaches a method of generating multiple scrambling codes in a communication system, in which each of a plurality of base stations use one of a plurality of primary scrambling codes and one of a plurality of secondary scrambling code sets each having a plurality of secondary scrambling codes, comprising:

setting (loading) an initial value of a scrambling code generator to a binary value of "n" when a n-th one of the plurality of primary scrambling codes is to be generated from the scrambling code generator to generate a desired primary scrambling code (column 4, line 64 - column 5, line 9); and

setting (loading) an initial value of the scrambling code generator with a value obtained by shifting (clocking) to generate a secondary scrambling code. Dahlman teaches shifting the shift register to generate a secondary scrambling code (column 4, lines 64-67, column 5, lines

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1-5). However, Dahlman does not clearly teach shifting the  $n$ th primary scrambling code by  $m$  times to generate a secondary scrambling code.

It would have been obvious to a person skilled in the art at the time the invention was made to include a method of generating a secondary scrambling code by shifting  $n$ -th primary scrambling code by  $m$  times. This would have been obvious because Dahlman teaches a method of generating primary and secondary scrambling codes by shifting (clocking) shift register (column 4, lines 64-67, column 5, lines 1-5). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to include a method of generating a secondary scrambling code by shifting  $n$ -th primary scrambling code by  $m$  times.

7. As per claim 3, Dahlman teaches a method of generating multiple scrambling codes, comprising:

generating a plurality of primary scrambling codes (column 5, claim 1);

for each of the plurality of primary scrambling codes, generating a plurality of secondary scrambling codes by shifting the selected primary scrambling code by prescribed numbers of times (column 5, claim 2 and claim 6);

comparing each of the plurality of primary scrambling codes to an initial value of each of the secondary scrambling codes (column 4, lines 23-33 and figure 1); and

Furthermore, Dahlman teaches a method generating Gold codes, which ensure that the output sequences from shift registers are different from starting values (column 4, lines 40-45). However, Dahlman does not explicitly teach discarding each one of the primary scrambling codes that has a value equal to the secondary scrambling codes.

It would have been obvious to a person skilled in the art at the time the invention was made to include a method of discarding primary scrambling codes that has a value equal to the

secondary scrambling codes into the method taught in Dahlman to generate unique scrambling codes.

8. As per claims 2 and 15, Dahlman teaches the method as disclosed in claims 1 and 14 above. Furthermore, Dahlman teaches the method, wherein the initial value of the scrambling code generator is set by setting a 7-th and 11-th bits included in the initial value to a value of 1, setting a first through 10-th bits, except for the 7-th and 11-th bits, to an 8 bit binary expression of "n," and setting, remaining ones of the bits, other than the first through 11-th bits, to a value of "0" (column 5, lines 4-17 and figure 4).

9. As per claim 16, Dahlman teaches the method as disclosed in claim 14 above. Furthermore, Dahlman teaches the method, wherein the step of setting the initial value for the scrambling code generator further comprises:

- (a) setting a plurality of temporal primary scrambling codes, the number of the temporal primary scrambling codes being more than the number of the primary scrambling codes (column 4, lines 23-43);

- (b) setting the initial value, adapted to generate a n-th one of the temporal primary scrambling, codes, with a value of "n" (column 5, lines 3-13);

- (c) calculating respective initial values, adapted to generate the secondary scrambling codes in the first one of the secondary scrambling code set, based on the value of "n" (column 5, claim 6);

- (d) detecting each secondary scrambling code in a secondary scrambling code set that have the same initial value as one of the temporal primary scrambling codes, based on the set and calculated initial values (column 4, lines 40-57);

(e) discarding the j-th temporal primary scrambling code or a i-th one of the temporal primary scrambling codes when the initial value of an i-th one of the secondary scrambling codes corresponds to that of a j-th one of the temporal primary scrambling codes (column 4, lines 40-44);

(f) repeatedly executing steps (b) through (e) up to an M-th one of the secondary scrambling code sets (column 4, lines 58-67 and column 5, lines 1-2); and

(g) selecting as the primary scrambling codes N codes from the remaining temporal primary scrambling codes after executing step (d) for the M-th secondary scrambling code set, and when a j-th one of the finally left temporal primary scrambling, codes is selected as an n-th-one of the primary scrambling codes, mapping the values of "n" and "i ", thereby setting the value of "J" as an initial value adapted to generate the n-th primary scrambling code (column 4, lines 40-67 and column 5, lines 1-10).

10. Claims 4 -13 are rejected under 35 U.S.C 103 (a) as being unpatentable over Dahlman (U.S. Patent No. 6,339,646 B1) in view of Burns (U.S. Patent No. 6,141,374).

11. As per claims 4 and 7, Dahlman teaches a forward multiple scrambling code generating apparatus, comprising:

a first shift register (figure 4, unit 202), which shifts bits of a bit stream by one bit in response to every input of an external unit clock, respectively, and outputs data for the generation of a primary scrambling code (column 4, line 67, and column 5, lines 1-2);

a second shift register (figure 4, 204), which shifts bits of a bit stream by one bit in response to every input of an external unit clock, respectively, and outputs data for the

generation of the primary scrambling code and a secondary scrambling code (column 4, line 67, and column 5, lines 1-2);

Furthermore, Dahlman teaches generating scrambling codes by performing binary addition of the output from the second shift register to an output from the first shift register (figure 4, and column 4, lines 58-67). Dahlman also teaches a method of utilizing gold codes to ensure output sequences generated from shift registers are different (column 4, lines 40-45). However Dahlman does not explicitly teach a masking function unit, which receives respective outputs from the first and second shift registers, and performs a masking, function for the received data to output data for the generation of the secondary scrambling code.

Burns teaches a masking function unit, which receives respective outputs from shift registers, and performs a masking function for the received data to output data for the generation of scrambling code (column 8, lines 29-44). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to implement a masking function unit as taught by Burns into the scrambling code generator of Dahlman in order to generate secondary scrambling codes which are different from the primary scrambling codes.

12. As per claims 5, 9 and 10, the combination of Dahlman and Burns teaches the disclosed apparatus as applied to claims 4 and 7 above. Furthermore, Dahlman teaches the apparatus, wherein the first shift register comprises an 18 bit register (figure 4, unit 202), in which a value obtained after a binary addition of an output of a 0-th one of the 18 bits to an output of a 7-th one of the 18 bits is fed back to a 17-th one of the 18 bits (figure 4).

13. As per claims 6, 11, and 12 the combination of Dahlman and Burns teaches the disclosed apparatus as applied to claims 4 and 7 above. Furthermore, Dahlman teaches the



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apparatus, wherein the second shift register comprises an 18 bit register (figure 4, unit 204), in which a value obtained after a binary addition of outputs from a 0-th, 5-th, 7-th, and 10-th one of the 18 bits is fed back to a 17-th one of the 18 bits (figure 4).

14. As per claim 8, the combination of Dahlman and Burns teaches the disclosed apparatus as applied to claims 7 above. Furthermore, Burns teaches the apparatus, wherein the register output and the second register output are combined using binary addition, and the second register output and the masking output are combined using binary addition (column 8, lines 34-44).

15. As per claim 13, the combination of Dahlman and Burns teaches the disclosed apparatus as applied to claims 7 above. Furthermore, Dahlman teaches the apparatus, wherein primary and secondary scrambling codes are generated by shifting (clocking) the shift registers (column 4, lines 64-67, column 5, lines 1-5).

16. Claims 17 and 18 are rejected under 35 U.S.C 103 (a) as being unpatentable over Dahlman (U.S. Patent No. 6,339,646 B1) in view of TSGR1#6(99)915, "TSG-RAN Working Group 1 meeting # 5", Helsinki, Finland, July 13-16, 1999 (hereinafter referred to as Tsg-Ran).

17. As per claims 17 and 18, Dahlman teaches a forward multiple scrambling code generating apparatus as applied above [see claim 14]. Dahlman is silent on the number of primary scrambling codes, where N is 512 and M is 16. However, TSG-RAN teaches a multiple a code generating apparatus, including generating codes consisting of scrambling codes 1...512 [see TSG-RAN, options 1 and 2]. Therefore it would have been obvious to one having ordinary

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skill in the art at the time the invention was made to select scrambling codes where N is 512 and M is 16 as suggested by TSG-RAN and modify Dahlman in order to generate scrambling codes by selecting scrambling codes from different combination of scrambling code sets.

***Claim Rejections - 35 USC § 102***

18. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

19. Claims 7-12 are rejected by 35 U.S.C 102(a) as being anticipated by TSGR1#6(99)915, "TSG-RAN Working Group 1 meeting # 5", Helsinki, Finland, July 13-16, 1999 (hereinafter referred to as Tsg-Ran).

20. The present invention and Tsg-Ran teach a multiple code generating apparatus. In figure 1, and figure 5 of Tsg-Ran, arrows from one unit to another is interpreted as outputs from one unit to another.

21. As per claim 7, Tsg-Ran teaches a code generating apparatus, comprising:

a first shift register, which outputs a first register output (figures 5, shift register 1, and outputs from register 1 to circle plus) ;

a second shift register, which outputs a second register output (figure 5, shift register 2, and output from register 2 to circle plus); and

a masking, function unit, coupled to receive the first and second register outputs, and output a masking output (figure 5, masking function units, and outputs from register 1 and register 2 to the masking function units), wherein the first register output and the second register output are combined to generate a primary scrambling code (figure 5, outputs from register 1 and register 2 combine in the circle plus and output primary scrambling code ), and the second register output and the masking output are combined to generate a secondary scrambling code (figure 1, outputs from register 2 and masking unit combine in the circle plus and output secondary scrambling code ).

22. As per claim 8, Tsg-Ran teaches the apparatus as disclosed in claim 7 above. Furthermore, Tsg-Ran teaches the apparatus, wherein the first register output and the second register output are combined using binary addition and output primary scrambling code (figure 5, outputs from register 1 and register 2 combine in the circle plus (binary addition logical symbol), and output from circle plus), and the second register output and the masking output are combined using binary addition (figure 1, outputs from register 2 and masking unit combine in the circle plus (binary addition logical symbol), and output secondary scrambling code).

23. As per claim 9, Tsg-Ran teaches the apparatus as disclosed in claim 7 above. Furthermore, Tsg-Ran teaches the apparatus, wherein the first register output is generated by logically combining selected bits of the first shift register and feeding a result back to a prescribed bit of the first shift register (figure 5, 0<sup>th</sup> and 7<sup>th</sup> bit of register 1 are logically combined in the circle plus and output of circle plus is feed back to the 17<sup>th</sup> bit).

24. As per claim 10, Tsg-Ran teaches the apparatus as disclosed in claim 9 above. Furthermore, Tsg-Ran teaches the apparatus, wherein the first shift register comprises an 18 bit register, and wherein the selected bits comprise a 0-th and seventh one of the 18 bits and the prescribed bit is a 17-th one of the 18 bits (figure 5, 0<sup>th</sup> and 7<sup>th</sup> bit of register 1 are logically combined in the circle plus and output of circle plus is feed back to the 17<sup>th</sup> bit).

25. As per claim 11, Tsg-Ran teaches the apparatus as disclosed in claim 7 above. Furthermore, Tsg-Ran teaches the apparatus, wherein the second register output is generated by logically combining selected bits of the second shift register and feeding a result back to a prescribed bit of the second shift register (figure 5, 0<sup>th</sup>, 5<sup>th</sup>, 7<sup>th</sup> and 10<sup>th</sup> bit of register 2 are logically combined in the circle plus and output of circle plus is feed back to the 17<sup>th</sup> bit).

26. As per claim 12, Tsg-Ran teaches the apparatus as disclosed in claim 11 above. Furthermore, Tsg-Ran teaches the apparatus, wherein the second shift register comprises an 18 bit register, and wherein the selected bits comprise a 0-th, 5-th, 7-th, and 10-th one of the 18 bits, and the prescribed bit comprises a 17-th one of the 18 bits (figure 5, 0<sup>th</sup>, 5<sup>th</sup>, 7<sup>th</sup> and 10th bit of register 2 are logically combined in the circle plus and output of circle plus is feed back to the 17<sup>th</sup> bit).

### ***Claim Rejections - 35 USC § 103***

27. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

28. Claims 4-6 are rejected by 35 U.S.C 103(a) as being unpatentable over TSGR1#6(99)915, "TSG-RAN Working Group 1 meeting # 5", Helsinki, Finland, July 13-16, 1999 (hereinafter referred to as Tsg-Ran).

29. As per claim 4, Tsg-Ran teaches a forward multiple scrambling code generating apparatus, comprising:

a first shift register, that outputs data for the generation of a primary scrambling code (figures 5, shift register 1, and outputs from register 1 to circle plus) ;

a second shift register, that outputs data for the generation of the primary scrambling code and a secondary scrambling code (figure 1, shift register 2, and outputs from register 2 to 1<sup>st</sup> and 2<sup>nd</sup> circle plus that output primary and secondary scrambling codes);

a masking function unit, which receives respective outputs from the first and second shift registers, (figure 5, masking function units, and outputs from register 1 and register 2 to the masking function units), and performs a masking function for the received data to output data for the generation of the secondary scrambling code (figure 5, masking function unit), wherein the primary scrambling code is generated by performing a binary addition of the output from the second shift register to an output from the first shift register (figure 5, outputs from register 1 and register 2 combine in the circle plus and output primary scrambling code ), and the secondary scrambling code is generated by performing a binary addition of the output from the masking function unit to the output from the second shift register (figure 1, outputs from register 2 and masking unit combine in the circle plus and output secondary scrambling code ).

Tsg-Ran teaches an 18 bit shift registers having data outputs (figure 5, outputs from shift registers 1 and 2). However, Tsg-Ran does not clearly teach registers shifting bits in response to input of a clock. It would have been obvious to one having ordinary skill in the art at the time the invention was made to shift bits of a bit stream in response to a unit clock. It is well known in the art that shift registers shift bits of a stream bit in response to an input of a unit clock in order to produce outputs. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to shift bits of a bit stream in response to a unit clock in order to produce outputs.

30. As per claim 5, Tsg-Ran teaches the apparatus as disclosed in claim 4 above. Furthermore, Tsg-Ran teaches the apparatus, wherein the first shift register comprises an 18 bit register, in which a value obtained after a binary addition of an output of a 0-th one of the 18 bits to an output of a 7-th one of the 18 bits is fed back to a 17-th one of the 18 bits (figure 5, 0<sup>th</sup> and 7<sup>th</sup> bit of register 1 are logically combined in the circle plus and output of circle plus is feed back to the 17<sup>th</sup> bit).

31. As per claim 6, Tsg-Ran teaches the apparatus as disclosed in claim 4 above. Furthermore, Tsg-Ran teaches the apparatus, wherein the second shift register comprises an 18 bit register, in which a value obtained after a binary addition of outputs from a 0-th, 5-th, 7-th, and 10-th one of the 18 bits is fed back to a 17-th one of the 18 bits (figure 5, 0<sup>th</sup>, 5<sup>th</sup>, 7<sup>th</sup> and 10<sup>th</sup> bit of register 2 are logically combined in the circle plus and output of circle plus is feed back to the 17<sup>th</sup> bit).

32. Claim 13 is rejected by 35 U.S.C 103(a) as being unpatentable over TSGR1#6(99)915, "TSG-RAN Working Group 1 meeting # 5", Helsinki, Finland, July 13-16, 1999, in view of Dahlman (U.S. Patent NO. 6,339,646 B1).

33. As per claim 13, Tsg-Ran discloses a code generating apparatus as applied to claim 7 above. Furthermore, Tsg-Ran teaches an apparatus for generating primary and secondary scrambling codes. However Tsg-Ran does not explicitly teach the apparatus, wherein an initial value of an n-th primary scrambling code of an m-th secondary scrambling code set is generated using a value obtained after shifting an n-th primary scrambling code by m times. However, Dahlman teaches a method of generating primary and secondary scrambling codes by shifting (clocking) shift register (column 4, lines 64-67, column 5, lines 1-5). Therefore it would have been obvious to one having ordinary skill in the art to include a method of generating a secondary scrambling code by shifting n-th primary scrambling code by m times as per teachings of Dahlman, in order to generate scrambling codes having different values.

### ***Conclusion***

34. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

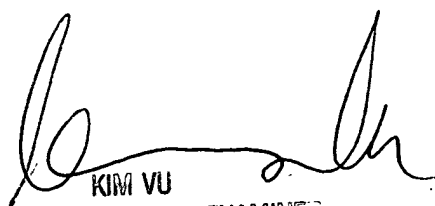
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Beemnet W Dada whose telephone number is (571) 272-3847. The examiner can normally be reached on Monday - Friday (9:00 am - 5:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Beemnet Dada

January 21, 2005

  
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SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2135